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NOTICE OF ALLOWANCE AND FEE(S) DUE

29453

JAPAN

7590

03/02/2004

EXAMINER

JUDGE PATENT FIRM RIVIERE SHUKUGAWA 3RD FL. 3-1 WAKAMATSU-CHO NISHINOMIYA-SHI, HYOGO, 662-0035

ELKASSABGI, HEBA

PAPER NUMBER

2834

DATE MAILED: 03/02/2004

ART UNIT

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/604.977	08/29/2003	Shinya Tokunaga	18.013-AG	1976	

TITLE OF INVENTION: SPINDLE MOTOR AND DISK DRIVE FURNISHED THEREWITH

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$300	\$1630	06/02/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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If the SMALL ENTITY is shown as NO:

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B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

☐ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

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CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must			
29453 759	90 03/02/2004			have its own certification	nal paper, such as an assignmate of mailing or transmission.	ent or formal drawing, mus	
JUDGE PATENT RIVIERE SHUKUG 3-1 WAKAMATSI NISHINOMIYA-SI	GAWA 3RD FL.	5		I hereby certify that States Postal Service addressed to the M	ertificate of Mailing or Tran this Fee(s) Transmittal is being with sufficient postage for final ail Stop ISSUE FEE address SPTO, on the date indicated be	ng deposited with the United rst class mail in an envelope above, or being facsimile	
JAPAN						(Depositor's name)	
					· <u>-</u> ·-	(Signature)	
					***	(Date)	
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10/604,977	08/29/2003		Shinya Tokunaga	ı	18.013-AG	1976	
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nonprovisional	NO	\$1330		\$300 	\$1630	06/02/2004	
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ELKASSAB	GI, HEBA	2834		310-090000			
Address form PTO/SB/12: "Fee Address" indication PTO/SB/47; Rev 03-02 or Number is required. 3. ASSIGNEE NAME AND PLEASE NOTE: Unless a	n (or "Fee Address" Indicat r more recent) attached. Use RESIDENCE DATA TO B	ion form of a Customer E PRINTED ON TH	agents OR, altern firm (having as a agent) and the na attorneys or agent will be printed. IE PATENT (print of a will appear on the	patent. Inclusion of	of a single di attorney or 2 stered patent	ate when an assignment has	
Please check the appropriate : 4a. The following fee(s) are e Issue Fee Publication Fee	assignee category or categor	ries (will not be print 4b. I	ted on the patent); Payment of Fee(s): D A check in the am	unt of the fee(s) is e card. Form PTO-203	corporation or other private g	roup entity	
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FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. **FILING DATE** APPLICATION NO. Shinya Tokunaga 18.013-AG 1976 10/604,977 08/29/2003 **EXAMINER** 29453 7590 03/02/2004 JUDGE PATENT FIRM **ELKASSABGI, HEBA** RIVIERE SHUKUGAWA 3RD FL. **ART UNIT** PAPER NUMBER 3-1 WAKAMATSU-CHO NISHINOMIYA-SHI, HYOGO, 662-0035 2834 **JAPAN DATE MAILED: 03/02/2004**

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

RND

	Application No.	Applicant(s)		
•	10/604,977	TOKUNAGA ET AL.	TOKUNAGA ET AL.	
Notice of Allowability	Examiner	Art Unit		
	Heba Elkassabgi	2834		
The MAILING DATE of this communication ap All claims being allowable, PROSECUTION ON THE MERITS herewith (or previously mailed), a Notice of Allowance (PTOL-8 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	IS (OR REMAINS) CLOSED in 35) or other appropriate commined RIGHTS. This application is s	n this application. If not included unication will be mailed in due cou	urse. THIS	
1. This communication is responsive to <u>09/04/2003</u> .				
2. The allowed claim(s) is/are 1-18.				
3. The drawings filed on are accepted by the Exami	ner.			
 4. Acknowledgment is made of a claim for foreign priority a) All b) Some* c) None of the: 1. Certified copies of the priority documents had 2. Certified copies of the priority documents had 3. Copies of the certified copies of the priority International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	ave been received. ave been received in Application	on No	n from the	
Applicant has THREE MONTHS FROM THE "MAILING DATI noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be substituted by the substitute of the substitute	NMENT of this application. omitted. Note the attached EXA	AMINER'S AMENDMENT or NOT		
INFORMAL PATENT APPLICATION (PTO-152) which g		r declaration is deficient.		
 CORRECTED DRAWINGS (as "replacement sheets") in (a) ☐ including changes required by the Notice of Draftsp. 		v / PTO:048) attached		
1) hereto or 2) to Paper No./Mail Date	-	V (1 10-5-10) attached		
(b) ☐ including changes required by the attached Examine Paper No./Mail Date		r in the Office action of		
Identifying indicia such as the application number (see 37 CFF each sheet. Replacement sheet(s) should be labeled as such i			ck) of	
7. DEPOSIT OF and/or INFORMATION about the deattached Examiner's comment regarding REQUIREMEN	•		e the	
Attachment(s)				
 Notice of References Cited (PTO-892) Dotice of Draftperson's Patent Drawing Review (PTO-948) 		formal Patent Application (PTO-1 ummary (PTO-413),	52)	
	Paper No.	Mail Date		
 Information Disclosure Statements (PTO-1449 or PTO/SI Paper No./Mail Date 	B/08), 7. ⊠ Examiner's —	Amendment/Comment		
4. Examiner's Comment Regarding Requirement for Deposit		Statement of Reasons for Allowa	nce .	
of Biological Material	9.	Blulle		
		BURTON S. MU	LLINS	

DETAILED ACTION

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

Figure #2 to be amended as follows on page 2A.

Priority

Acknowledgment is made of applicant's claim for foreign priority under 35 U.S.C. 119(a)-(d). The certified copy has been filed in parent Application No. 10/604977, filed on 09/04/2003.

Information Disclosure Statement

The information disclosure statement (IDS) submitted on 09/04/2003 is being considered by the examiner. Submission is in compliance with the provisions of 37 CFR 1.97.

Application/Control Number: 10/604,977

Art Unit: 2834

Allowable Subject Matter

The following is an examiner's statement of reasons for allowance:

Independent claims 1 and 10 are allowed over the prior art which does not disclose a spindle motor having a cylindrical bearing member in which a series of bearing clearances is filled with oil that is formed in between a bearing member, a rotor shaft and a flat face of a rotor. In addition of a thrust bearing section provided with dynamic-pressure-generating grooves that is contoured to impart on the oil pressure acting radially inward during rotation of a rotor in which an end face of a bearing member axially opposes the rotor flat face and in combination with a radial bearing section that is provided with dynamic-pressure-generating grooves contoured to impart on the oil pressure acting inward from either end axially during rotation of said rotor, and is formed between an inner peripheral surface of a bearing hole and a circumferential surface of a shaft radially opposing the bearing-hole inner peripheral surface. In which at least one ray-like groove is provided in the bearing member end face where a thrust bearing section is formed, and reaching from a radially inward edge portion of the dynamic-pressure-generating grooves provided in a thrust bearing section to a bearing hole.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Art Unit: 2834

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Heba Elkassabgi whose telephone number is (571) 272-2023. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

HYE

BURTON S. MULLINS PRIMARY EXAMINER

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